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ENUMERATION AND DESCRIPTION OF THE SEPTORIAS OF NORTH AMERICA.

BY GEORGE MARTIN, M. D.

(Continued from page 53.)

55. *SEPTORIA GOSSYPINA*, Cke. Grev. XII, p. 25; Sylloge III, p. 516; Rav. F. A., No. 509.

Epiphyllous; spots white, irregular, border purple; perithecia punctiform, central, black, semi-innate, 130—150 μ in diam.; sporules hyaline, linear, "50 x 1 μ ." On leaves of *Gossypium*. South Carolina.

56. *SEPTORIA GRAMINUM*, Desm. Grev. III, p. 10; Sylloge III, p. 565; Ellis, N. A. F., No. 750.

Spots pallid, narrow, elongated, limited by the nerves, often with a narrow brown margin; perithecia brown, curved, obscure at first, then rupturing and leaving a concave disk, scattered, 150 μ in diam.; sporules hyaline, linear, flexuous, entire, minutely nucleolate, 55—75 x 1—1.3 μ . On *Panicum sanguinale*. New Jersey.

57. *SEPTORIA GRATIOLÆ*, E. & M. Journ. Mycol. I, p. 107.

Perithecia punctiform, minute, emergent, scattered over the faded leaves, but not in definite spots; sporules filiform, nucleate, straight or somewhat curved, continuous, 30—40 x $\frac{3}{4}$ —1 μ . On fading leaves of *Gratiola quadridentata*. Florida.

58. *SEPTORIA HELIANTHI*, E. & K. Am. Nat. XVII, p. 1165; Ellis, N. A. F., No. 1134.

Spots brown, 2—8 millim. broad, border yellowish; perithecia brown, immersed, collapsing, epiphyllous, 150 μ in diam.; sporules hyaline, linear, generally attenuated towards the ends, nucleolate, becoming 3—5-septate, 30—70 x 2—3 μ . On *Helianthus doronicoides*. Kansas.

59. *SEPTORIA HOSACKIÆ*, Hark. Bull. Cal. Acad., February, 1884, p. 31; Sylloge III, p. 508.

"Spots irregular, brownish yellow; perithecia minute, amphigenous; sporules hyaline, filiform, flexuous, 3—7-septate, 64 x 4 μ ." On living leaves of *Hosackia strigosa*. California.

60. *SEPTORIA HYDROCOTYLES*, Desm. Sylloge III, p. 531; Ellis, N. A. F., No. 1131.

Spots brownish, then pallid, subregular, one millim. in diam., border red-brown, narrow; perithecia black, flattened, innate, epiphyllous, 60—70 μ in diam.; sporules hyaline, linear, curved, 8—10-guttulate (16—25 x 1—2 μ ," Sacc.), 30—40 x 1—2 μ . On *Hydrocotyle repanda*. Florida.

61. *SEPTORIA ILICIFOLIA*, Cke & Ellis; Grev. VI, p. 85; Sylloge III, p. 483.

"Spots pallid, with a brown border; perithecia punctiform, black, semi-immersed; sporules minute, hyaline." On leaves of *Ilex*. New Jersey.

62. *SEPTORIA INCONSPICUA*, B. & C. Grev. III, p. 9; Sylloge III, p. 554; Ellis, N. A. F., No. 1145.

Spots white or light gray, 1—3 millim. broad, border narrow, light brown; perithecia brown-black, lenticular, amphigenous, scattered, 70—80 μ ; sporules hyaline, linear, straight, 20—28 x 1—1½ μ , continuous. On leaves of *Plantago lanceolata*. N. Jersey.

63. *SEPTORIA INCRESCENS*, Pk. 33d Rep. N. Y. S. Mus., p. 25; Sylloge III, p. 533.

"Spots minute at first, then large, brown, dry in the center; perithecia minute, black; sporules filiform, curved or flexuous, 30—40 μ long." On leaves of *Trientalis Americana*. New York.

64. *SEPTORIA INFUSCATA*, Winter. Journ. Mycol. I, p. 122.

"Spots large, somewhat round or irregular, dull gray, often variegated and subzoned, border brown, indeterminate, generally 20 millim. long, six millim. broad; perithecia loosely clustered, prominent, globose, black, membranaceous, thin, 87—105 μ in diam.; sporules filiform, ends rounded, a little enlarged upwards, multiseptate, hyaline, 50—70 x 1½—2 μ ." On living leaves of *Lepachys pinnata*. Missouri.

65. *SEPTORIA IRREGULARIS*, Pk. Bot. Gaz. V, p. 34; Sylloge III, p. 484; N. A. F., No. 1127.

Spots small, angular, often confluent, at first yellowish above, then reddish-brown, with a narrow, darker border, brown or grayish-brown beneath; perithecia hypophyllous, sometimes amphigenous, irregular, black, sporules numerous filiform, hyaline, 30—45 μ long. On living leaves of *Rhus Toxicodendron*. Illinois and New Jersey. Specimen 1127, N. A. F., has sporules 50—60 x 3—4 μ , 3—5-septate.

66. *SEPTORIA KALMIÆCOLA*, (Schw.), B. & Curt. Grev. III, p. 9; Sylloge III, p. 499; N. A. F., No. 344.

Spots white, orbicular, margin tumid, with a blackened ring around; perithecia lenticular, black, clustered, innate, hypophyllous; sporules hyaline, cylindrical, 21 x 1½ μ , "septorioidies." On leaves of *Kalmia latifolia*. South Carolina and Pennsylvania.

67. *SEPTORIA KELLERMANIANA*, Thum. Kansas Academy of Science, Nov. 25, 1884, p. 81; Journ. Mycol. I, p. 71.

"Sporules bacilliform, straight, slender, simple or faintly septate, 60—80 \times 1½ μ ." On leaves of *Vitis riparia*. Kansas.

68. *SEPTORIA LACTUCÆ*, Pass. Sylloge III, p. 551; Bot. Gazette III and IV, p. 170; Ellis, N. A. F., No. 345.

Spots pallid or ferruginous, irregular, indefinite; perithecia dark brown, amphigenous, scattered, 80—90 μ in diam.; sporules hyaline, filiform, straight or curved, entire, 25—35 \times 1½—2 μ . On leaves of *Lactuca sativa*. Illinois and New Jersey.

69. *SEPTORIA LACTUCICOLA*, E. & M. Am. Nat. XVI, p. 1002; Sylloge III, p. 552; Ellis, N. A. F., No. 1613.

Spots large, red brown, 12—30 millim. broad; perithecia brown, innate, amphigenous, scattered, 80—85 μ in diam.; sporules hyaline, filiform, often curved, 25—40 \times 1½ μ . On living leaves of *Lactuca Canadensis*. New York.

70. *SEPTORIA LAMII*, Passer. Sylloge III, p. 538; Ellis, N. A. F., No. 1140.

Spots gray or pallid, limited by the veins, irregular; perithecia black, epiphyllous, scattered, 60—70 μ in diam.; sporules filiform, hyaline, flexuous ("continuis?"), 30—40 \times 1½ μ . On leaves of *Leonurus Marubastrum*. Pennsylvania.

71. *SEPTORIA LEPIDICOLA*, E. & M. Am. Nat. XVI, p. 1002; Sylloge III, p. 519; Ellis, N. A. F., No. 1147.

Spots pallid, subregular, three fourths millim. in diam.; perithecia chestnut brown, aggregated, 74 μ in diam.; sporules hyaline, cylindrical, slightly curved, ends obtuse, guttulate or septate, 24—30 \times 2½—3 μ . On leaves of *Lepidium Virginicum*. Pennsylvania.

72. *SEPTORIA LEPTOSTACHYA*, E. & K. Bull. Torr. Bot. Club II, p. 115.

Spots pale brown, subrotund, scattered or confluent, dry, mostly limited by the veinlets, 2—4 millim. in diam.; perithecia brown-black, very delicate, slightly prominent, amphigenous, scattered, 65—80 μ ; sporules hyaline, filiform, slightly undulate-curved, entire, 20—22 \times 1 μ . On *Phryma Leptostachya*. Ohio.

73. *SEPTORIA LIQUIDAMBARIS*, C. & E. Grev. VIII, p. 11; Sylloge III, p. 501; Ellis, N. A. F., No. 530.

Spots brown, suborbicular, 1—2 millim. in diam.; perithecia brown-black, subglobose, stomatous, prominent, clustered, hypophyllous, 80 μ in diam.; sporules hyaline, linear, curved, ends slightly attenuated and rounded, 3—5-septate, 50—60 \times 3 μ . On leaves of *Liquidambar styraciflua*. New Jersey.

74. SEPTORIA LOBELIÆ, Pk. 26th Rep. N. Y. S. Mus., p. 87; Sylloge III, p. 532.

Spots pallid or nearly white, subcircular, often confluent, dry, 4—5 millim. in diam.; border brown, purple or black; perithecia black, flattened, innate, prominent, epiphyllous ("amphigenous"), clustered, numerous, 100—130 μ in diam.; sporules hyaline, filiform, nearly straight, 26—40 \times 1—1½ μ ("17—25 μ long"). On leaves of *Lobelia spicata* and *L. syphilitica*. New York to Iowa.

75. SEPTORIA LOPHANTHI, Winter. Hedwigia, 1883, p. 71; Sylloge III, p. 538.

Spots brown-black, angular, 1—3 millim. broad, often confluent; perithecia black, subglobose, immersed, gregarious, amphigenous, 150—200 μ in diam.; sporules hyaline, filiform, flexuous or curved, ends subacute or one end rounded, entire or sparingly septate, 35—55 \times 2—2½ μ , exuding in white threads, often covering the perithecia with a crust. On living leaves of *Lophanthus nepetoides*. Illinois.

76. SEPTORIA LUDWIGIÆ, Cke. Grev. VII, p. 33; Sylloge III, p. 512; Rav. F. A., No. 263.

Spots pallid, subrotund, dry, 1—2 millim. in diam., border dusky red; perithecia dark brown, innate, slightly prominent, mostly epiphyllous, 5—8 in a spot, 70—90 μ in diam.; sporules hyaline, filiform, flexuous, ends obtuse, multinucleate, (?) 40—42 \times ½ μ . On leaves of *Ludwigia palustris*. South Carolina and Pennsylvania.

77. SEPTORIA LUPINI, Harkn. F. California, p. 11; Sylloge III, p. 508.

"Epiphyllous; spots indeterminate, yellowish, frequently occupying the whole leaf; perithecia minute, papillate; sporules linear, ends acute, obscurely septate, 40—60 \times 4—5 μ ." On living leaves of *Lupinus densiflorus*. California.

78. SEPTORIA CONSPICUA, E. & M. N. A. F., No. 1736.

Spots amphigenous, rusty brown, with a narrow, slightly raised border, suborbicular, 2—5 millim. or, by confluence, one cm. in diam., thickly scattered over the leaf; perithecia amphigenous, black, convex, numerous, 100—130 μ in diam.; sporules filiform, 40—55 \times 1—1¼ μ , nucleate, subhyaline. Many of the perithecia contain, also, globose, hyaline bodies, 6—8 μ in diam., similar to those found in the perithecia of *Asterina orbicularis*, B. & C. This is quite distinct from *S. Lysimachiae*, West., which is reported by Prof. Peck in N. Y. State, 38th Rep., p. 97. On leaves of *Steironema ciliatum*. Delaware. A. Commons.

79. SEPTORIA LYTHRINA, Pk. 33d Rep. N. Y. S. Mus., p. 25; Sylloge III, p. 512.

Spots gray or gray-brown, suborbicular or irregular, 3—5 millim. broad, often with a black ring; perithecia black, subglobose, slightly prominent, clustered, mostly epiphyllous, 75—112 μ in diam.; sporules hyaline, filiform, flexuous or curved, 3-septate, 20—40 \times 1 μ . On leaves of *Lythrum salicaria* and *L. alatum*. New York and Kansas.

80. *SEPTORIA MAGNOLIÆ*, Cke. Sylloge III, p. 475; Rav. F. A., No. 153 and 261.

Spots brown, irregular, thickened; perithecia black, subimmersed, epiphyllous, sporules linear, nucleolate, $25-30 \times 1\frac{1}{2} \mu$. On leaves of *Magnolia grandiflora*. Texas and South Carolina.

81. *SEPTORIA MALVICOLA*, E. & M. n. s.

Spots gray, partially limited by the veinlets, 2—3 millim. broad, clustered and coalescing, bordered by a yellow discoloration; perithecia black, suglobose at first, afterward depressed, thinly membranaceous, clustered, numerous, mostly epiphyllous, 90—100 μ ; sporules hyaline, linear, ends obtuse, a little curved, faintly 3—4-septate, $30-37 \times 1 \mu$. On leaves of *Malva rotundifolia*. New York.

82. *SEPTORIA MELANOPHTHALMI*, B. & C. Grev. III, p. 12; Sylloge III, p. 509.

"Spots pallid, surrounded by a broad, dark-red margin; sporules sausage-shaped or waved, short, 2—3-nucleolate," On leaves of *Dolichos melanophthalmus*. North Carolina.

83. *SEPTORIA MENTZELIÆ*, E. & K. Journ. Mycol. II, p. 4.

Spots pallid, subregular, 5—8 millim. in diam.; perithecia black, innate, prominent on the upper surface of the leaves, visible on the under, 100 μ in diam.; sporules hyaline, linear, subundulate, nucleolate, $40-60 \times 1\frac{1}{2}-2 \mu$. On leaves of *Mentzelia nuda*. Kansas.

84. *SEPTORIA MICROSPERMA*, Pk. 34th Rep. N. Y. S. Mus., p. 44; Sylloge III, p. 506.

"Spots brown, indefinite, often confluent; perithecia hypophyllous, numerous, minute, brown, dry, rugose, irregularly fissured; sporules hyaline, sausage-shaped, 9—14 μ long." On leaves of *Betula lenta*. New York.

85. *SEPTORIA MIMULI*, E. & K. Am. Nat. XVII, p. 1165; Journ. Mycol. I, p. 122.

"Spots gray or white, 1—2 millim. in diam.; border dark; perithecia black, 4—10 in a spot, innate, equally conspicuous on both surfaces of the leaves, 80—100 μ in diam.; sporules hyaline, linear, often attenuated towards one end, yellowish, nucleolate or remotely septate, curved, $30-45 \times 1\frac{1}{2}-2\frac{1}{2} \mu$." On leaves of *Mimulus ringens*. Kansas to Missouri.

86. *SEPTORIA MIRABILIS*, Pk. 25th Rep. N. Y. S. M., 87; Sylloge III, p. 576; Ellis, N. A. F. No. 532.

Spots pallid or light yellow, angular, limited by the veinlets; perithecia yellow, hypophyllous, minute; sporules hyaline, oblong-obovate, entire, nucleolate, one end mostly acute, $30-50 \times 12 \mu$. On fronds of *Onoclea sensibilis*. New York and Pennsylvania.

NOTE.—This is *Gloeosporium Phegopteridis*, Pass. Sacc. Syl. III, p. 721. It is evidently not a good *Septoria* and should be referred either to *Gloeosporium* or to *Phleospora*.—EDS.

87. SEPTORIA NABALI, B. & C. Grev. III, 9; Sylloge III, p. 547.

Spots light to red-brown, border flat, broad, brown; perithecia brown, slightly prominent, epiphyllous, 50 μ in diam.; sporules hyaline, filiform, flexuous, occasionally 1—3-septate, 30—45 \times 1½ μ . On leaves of *Nabalus alba*. New Hampshire to Pennsylvania.

88. SEPTORIA NARVISIANA, Sacc. Sylloge III, p. 568. (*S. Holoschæni*, Sacc., Mich. I, p. 196.)

Spots obsolete; perithecia dark brown, globose, innate, erumpent, subgregarious, very delicate, 100—114 μ in diam.; sporules pale olive, cylindrico-fusoid, 5—7-septate, not constricted, slightly curved, 35—50 \times 3½—4 μ . On *Scirpus maritima*. Shores of Chesapeake Bay.

89. SEPTORIA NIPHOSTOMA, B. & C. Grev. III, p. 12; Sylloge III, p. 475; Rav. F. A., No. 28; Ellis, N. A. F., p. 744.

Perithecia black, shining, epiphyllous, thickly scattered, 130—160 μ ; sporules hyaline, linear, straight, ends obtuse, 3-septate, 20—25 \times 2 μ ; spots obsolete, leaf faded and tawny. On leaves of *Magnolia grandiflora*. Carolina and Florida.

90. SEPTORIA NOCTIFLORÆ, E. & K.

Spots pallid, round or oyal, 2—3 millim. broad, border narrow, light brown; perithecia light brown, subglobose, very delicate, innate, slightly prominent, epiphyllous, 85—95 μ in diam.; sporules hyaline, subfusiform, 1-septate, 30—36 \times 2—2½ μ . On *Silene noctiflora*. Kansas.

91. SEPTORIA NOLI-TANGERIS, Gerard. Bull. Torrey Bot. Club, 1873-4, p. 64; Ellis, N. A. F., p. 1137.

Spots round or oblong, light brown, 1—3 millim. in diam., with a narrow, brown, raised edge and a purplish border; perithecia brown-black, subglobose, innate, slightly prominent, clustered in the center of the spot, mostly epiphyllous, 70 μ in diam.; sporules hyaline, filiform, curved, 15—30 \times 2 μ . On leaves of *Impatiens*. New York and Ohio. *S. Nolitangere*, Thum., Sylloge III, p. 514, appears to be nearly if not quite identical with the above, but as he did not publish until 1880, Gerard has the precedence.

92. SEPTORIA OCHROLEUCA, B. & C. Grev. III, p. 9; Pk., 25th Rep. N. Y. S. Mus., p. 88; Sylloge III, p. 504; Ellis, N. A. F., No. 533.

This has been transferred to *Gloeosporium* by Ellis and Everhart. See Journ. Mycol. I, 116.

93. SEPTORIA OENOTHERÆ, West. Sylloge III, p. 513; Rav. F. A., No. 32; Ellis, N. A. F., No. 38.

Spots epiphyllous, round, minute, at first greenish, then brown, with a wine-red border; perithecia black, punctiform, aggregated in the center of the spots, 120 μ in diam.; sporules filiform, hyaline, curved, minutely pluriguttulate, 35—40 \times 1½—2 μ . On leaves of *Oenothera biennis*. Pennsylvania to South Carolina.

94. *SEPTORIA OLBANDRINA*, Sacc. Sylloge III, p. 497.

Spots gray, suborbicular, 3—10 millim. broad, coalescing and at times covering the entire ends of the leaves; perithecia black, suglobose, epiphyllous, erumpent, cellular, scattered, 150—240 μ in diam.; sporules hyaline, cylindrical or cylindrico-clavate, often curved, occasionally 2-septate, 15—30 x $1\frac{1}{2}$ —3 μ . On frosted leaves of *Nerium Oleander*. Florida.

95. *SEPTORIA OSTRYÆ*, Pk. 33d Rep. N. Y. S. Mus., p. 25; Sylloge III, p. 503.

"Spots minute, subcircular, red-brown; perithecia scattered in the center of the spots, brown-black; sporules linear, greatly curved, indistinctly septate, 40—60 μ long." On the leaves and cones of *Ostrya Virginica*. New York.

96. *SEPTORIA PACHYSPORA*, Ell. & Hol. Journ. Mycol. I, p. 6; Ellis, N. A. F., No. 1615.

Spots snow white, round or subangular, very thin, 1—2 millim. in diam., border broad, purplish; perithecia black, lenticular, innate, erumpent, epiphyllous, 100—130 μ in diam.; sporules subhyaline, with a greenish-yellow tinge, arcuate-fusiform, 4—6-septate, 35—60 x 3 μ . On leaves of *Zanthoxylum Americanum*. Iowa.

97. *SEPTORIA PASTINACINA*, Sacc. Mich. II, p. 102; Pk., 33d Rep. N. Y. S. Mus., p. 24; Sylloge III, p. 528.

"Spots brown, diffused, indefinite; perithecia black, applanate, piercing the epidermis with the ostiola, 120—150 μ in diam.; sporules filiform, curved or flexuous, 20—30 x .7—1 μ ." On stems of *Pastinaca sativa*. New York.

98. *SEPTORIA PAUPERA*, Ellis. Ellis, N. A. F., No. 748.

Spots brown, angular, darker upon the upper surface, $\frac{1}{2}$ —1 $\frac{1}{2}$ millim. broad; perithecia brown, subglobose, very delicate, innate, slightly prominent, hypophyllous, 125—130 μ in diam.; sporules hyaline, filiform, straight or flexuous, ends obtuse, 3—7-septate, 45—55 x 1—1 $\frac{1}{2}$ μ . On leaves of *Helianthus divaricatus*.

99. *SEPTORIA PECKII*, Sacc. Sylloge III, p. 567; *Cryptosporium Scirpi*, Pk., 25th Rep. N. Y. S. Mus., p. 84.

"Spots pallid; perithecia black, subglobose, clustered; sporules hyaline, slightly curved, elongated-fusoid, 15—18 μ long." On *Scirpus fluviatilis*. New York.

100. *SEPTORIA PENTSTEMONIS*, Ell. & Evrh. Bull. of Torrey Bot. Club II, p. 73; Sylloge III, p. 534.

Spots white, dry, thin, round, 1—1 $\frac{1}{2}$ millim. in diam., border dark purple, broad; perithecia black, flattened, innate, slightly prominent, mostly epiphyllous, 60 μ in diam.; sporules hyaline, linear, slightly curved, indistinctly nucleolate, 14—20 x 1 μ . On leaves of *Penstemon Digitalis*. Illinois.

101. *SEPTORIA PHOTINIÆ*, B. & C. Sylloge III, p. 489.

"Perithecia covered by the small black spots of epidermis; sporules linear, straight, short." On leaves of *Photinia*. California.

102. *SEPTORIA PILEÆ*, Thum. Bull. Torrey Bot. Club, VI, p. 351; Sylloge III, p. 557; Peck., 34th Rep. N. Y. S. Mus., p. 45.

Spots light gray, angular or suborbicular, scattered, minute, border broad, brown olive; perithecia few or solitary epiphyllous, minute, brown or black-brown, globose-depressed, 70 μ in diam.; sporules hyaline, filiform, lightly curved, continuous, 20—28 \times 1½—2 μ . On leaves of *Pilea pumila*. Missouri.

103. *SEPTORIA PLATANIFOLIA*, Cke. Hedwigia, 1878, p. 38; Sylloge III, p. 500; Rav. F. A., No. 27.

Spots obsolete; perithecia brown-black, innate, slightly prominent, numerous, hypophyllous, 60—65 μ in diam.; sporules immature. On leaves of *Platanus occidentalis*. South Carolina.

104. *SEPTORIA PODOPHYLLINA*, Pk. Bot. Gazette IV, p. 170; Sylloge III, p. 526; Ellis, N. A. F., No. 1138.

Spots large, indefinite, reddish-brown; perithecia light brown, innate, slightly prominent, few, clustered on or near the center, collapsing when dry, epiphyllous, 98—112 μ in diam.; sporules hyaline, filiform, straight or slightly curved, 20—40 \times 1½—2 μ . On leaves of *Podophyllum peltatum*. Illinois and Ohio.

105. *SEPTORIA POLYGALÆ*, Pk. & Cke. 29th Rep. N. Y. S. Mus., p. 48; Sylloge III, p. 521.

"Perithecia black, minute, scattered or aggregated; sporules filiform, straight or slightly curved, 25—40 μ long." On *Polygala paucifolia*. New York.

106. *SEPTORIA POLYGONORUM*, Desm. Sylloge III, p. 555; Ellis, N. A. F., No. 531.

Spots small, light brown, subrotund, border purple, 2—3 millim. in diam.; perithecia light brown, lenticular, becoming concave, innate, barely prominent, epiphyllous, 100—120 μ in diam.; sporules hyaline, filiform, slightly flexuous, 4—5-guttulate, 25—40 \times 1—1½ μ . On leaves of *Polygonum Pennsylvanicum*. Pennsylvania.

107. *SEPTORIA PRUNI*, Ellis. Am. Nat. X, p. 811; Sylloge III, p. 489; Ellis, N. A. F., No. 1151.

Spots dark brown, dry, subrotund, soon breaking out, 1—3 millim. in diam.; perithecia brown, immersed, epiphyllous, 60 μ in diam., sporules hyaline, linear, ends obtuse, 4—6-septate, 30—50 \times 2 μ . On leaves of *Prunus Americana*. Kentucky and Kansas.

108. *SEPTORIA PSILOSTEGA*, E. & M. Am. Nat. XVI, p. 1001; Sylloge III, p. 543.

Spots golden yellow, mostly occupying the margin of the leaves; perithecia yellow, very delicate, scattered, innate, slightly prominent, hypophyllous, 70—112 μ in diam.; sporules subhyaline, filiform, straight or curved, faintly triseptate, 60 \times 3 μ , exuded in amber-colored masses. On leaves of *Galium pilosum*. New Jersey.

109. *SEPTORIA PULCHELLA*, B. & C. Grev. III, p. 8; Sylloge III, p. 494.

Spots pale red to nearly white, subcircular, one millim. in diam., border dark purple; perithecia light brown, innate, slightly prominent, amphigenous, 56 μ in diam.; sporules hyaline, cylindrical, curved, 35–40 x 3 μ ("5 μ (?) long," Grev.) On leaves of *Andromeda ferruginea*. Alabama and Florida.

110. *SEPTORIA PURPURASCENS*, E. & M.

Spots purplish red, 2–5 millim. broad, often coalescing; perithecia black, suglobose, innate, slightly prominent, hypophyllous, scattered, several in a spot, 150 μ in diam.; sporules hyaline, cylindrico-clavate, often curved, 3-septate, 40–45 x 3 μ , exuding in a mass. On leaves of *Potentilla Norvegica*. New York.

111. *SEPTORIA PYROLÆ*, E. & M. Journ. Mycol. I, p. 100.

Spots brown, small, limited by the blackened veinlets; perithecia at first yellowish-white, becoming black, hypophyllous, sporules filiform, slightly curved, ends obtuse, 25–35 x $\frac{3}{4}$ μ . On leaves of *Pyrola secunda*. Lake Superior.

112. *SEPTORIA QUERCETI*, Thum. Bot. Gaz. V, p. 123; Sylloge III, p. 505.

"Spots large or small, suborbicular; perithecia black, shining, immersed, covered by the raised epidermis, but later, barely free, minute, punctiform, densely gregarious, hypophyllous; sporules hyaline, numerous, cylindrical, nearly straight or curved, ends obtuse, 2–4-septate, multinucleate, 18–22 x 2 $\frac{1}{2}$ –3 μ ." On dying or dry leaves of *Quercus tinctoria*. South Carolina.

113. *SEPTORIA RAVENELII*, Thum. Sylloge III, p. 489; Rav. F. A., No. 508; Ellis, N. A. F., No. 747.

Spots light brown, irregular, 1–3 millim. in diam., border reddish purple; perithecia brown, soft, innate, a little prominent, scattered, few in a spot, hypophyllous, 160 μ in diam.; sporules hyaline, subfusiform, obscurely 3–4-septate, 40–70 x 3–4 μ , exuded in amber-colored threads. On leaves of *Prunus Caroliniana* and *P. serotina*. South Carolina to Pennsylvania.

114. *SEPTORIA RECTA*, B. & C. Sylloge III, p. 507.

"Perithecia black, occupying the whole surface of the leaves; sporules straight, linear, ends acutish, 25 μ long." On dead coriaceous leaves. South Carolina.

115. *SEPTORIA PHODODENDRI*, Cke. Sylloge III, p. 494.

Spots orbicular, pallid, border black-purple; perithecia punctiform, aggregated or circinate; sporules filiform, 40 μ long. On leaves of *Rhododendron*. Maine.

116. *SEPTORIA RHODIA*, B. & C. Sylloge III, p. 483.

"Spots white, small, margin broad, black; perithecia central; sporules vermiform, flexuous, 75 μ long." On leaves of *Rhus Cotinus*. New England and New York.

(To be continued.)